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David Wilner

November 1995 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems, Volume

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Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1

Full text available: Tock(7.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. Dialogue independence is th ...

An object-oriented framework for interactive data graphics

Robert L. Young

December 1987 ACM SIGPLAN Notices, Conference proceedings on Object-oriented programming systems, languages and applications, Volume 22 Issue 12

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Ida is an object-oriented framework for interactive data graphics. It can be used for independent data examination or integrated into application user interfaces. Ida's model of graphics is composed of five basic elements: Presentations, Assemblies, Data Sources, Data Displays, and Scales. Presentations and assemblies address display layout. A sharp distinction is maintained between drawing and the management of already drawn images. Data sources are respon ...

Abstract interaction tools: a language for user interface management systems Jan Van Den Bos



April 1988 ACM Transactions on Programming Languages and Systems (TOPLAS). Volume 10 Issue 2

Full text available: pdf(2.45 MB)

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A language model is presented for the specification of User Interface Management Systems. The model, called the Abstract Interaction Tool (AIT) model, offers a tree-like hierarchy of interaction objects. Each object represents a subtree and can be considered as an abstract input device containing a syntax-like specification of the required input pattern. The hierarchy of specifications amounts to a system of syntactical productions with multiple control. Terminal nodes of the AIT tree repre ...